

Claims

We claim:

- 1 1. A method for transmitting a video over a network as a bit stream of
2 packets, comprising:
3 receiving real-time feedback information on conditions of the network
4 while transmitting the packets;
5 determining a probability of packet loss based on the real-time
6 feedback;
7 generating redundant packets for selected packets of the bit stream if
8 the probability of packet loss is greater than a predetermined threshold.
- 1 2. The method of claim 1, in which the conditions include packet loss rate,
2 available bandwidth, and round-trip latency.
- 1 3. The method of claim 1, in which the selected packet is a header packet of
2 an I-frame.
- 1 4. The method of claim 1, in which the selected packet is a header packet of
2 an P-frame.
- 1 5. The method of claim 1, in which the redundant packet is transmitted
2 before an original copy of the corresponding packet.

- 1 6. The method of claim 1, in which the redundant packet is generated
- 2 according to a frame type and a position of the original packet in the frame,
- 3 and the redundant packet is transmitted after an original copy of the
- 4 corresponding packet.